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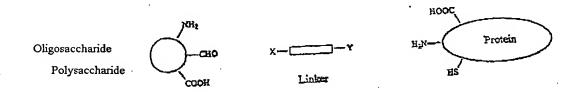


Fig. 1: Neoglycoprotein synthesis

a) Reductive amination

5 b) I₂ oxidation

c) CNBr activation

Alternative: activation with CDAP

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d) NaIO₄ cleavage

15 Fig. 2.1: Polysaccharide modification

a) Reductive amination

5 b) N-glycosylation

Fig. 2.2: Oligosaccharide modification

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1a: N-Hydroxysuccinimides

5 lb: Imido esters

1c: Aryl azides

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2: Hydrazides

Fig. 3: NH₂ and CHO/COOH coupling reactions

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3a: Haloacetates

5 3b: Maleimides

3c: Pyridyl disulfides

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Fig. 3: SH coupling reactions

1: Homobifunctional

a)

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DMA (n = 4) DMP (n = 5) DMS (n = 6)

b)

DSG (n = 3)DSS (n = 6)

c)

ADH

d)

BMOE (n = 2) BMB (n = 4) BMH (n = 6)

2: Heterobifunctional

a)

AMAS (n = 1) GMBS (n = 3) EMCS (n = 5)

b)

M2C2H

c)

SPDP

5

Fig. 4: Crosslinkers

1: Maleimide

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a)

AMAS (n = 1) GMBS (n = 3) EMCS (n = 5)

SMCC

Sulfo-GMBS Sulfo-EMCS Sulfo-SMCC

b)

M₂C₂H

c)

SMPB

MB\$

2: Haloacetate

SBAP

5 3: Pyridyl disulfide

Sulfo-LC-SPDP

Fig. 5: Linkers for SH couplings